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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,704	06/24/2003	Takayuki Kondo	116036	9717
25944	7590 12/16/2004		EXAM	INER
OLIFF & BERRIDGE, PLC P.O. BOX 19928			FOURSON III, GEORGE R	
ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER
	·		2823	

DATE MAILED: 12/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		ghn				
	Application No.	Applicant(s)				
	10/601,704	KONDO, TAKAYUKI				
Office Action Summary	Examiner	Art Unit				
	George Fourson	2823				
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR IT THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communical - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	CION. CFR 1.136(a). In no event, however, may a relicion. s, a reply within the statutory minimum of thirt period will apply and will expire SIX (6) MON y statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	27 September 2004.					
2a) ☐ This action is FINAL . 2b) ☑) This action is FINAL . 2b) This action is non-final.					
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closed in accordance with the practice u	nder <i>Ex parte Quayl</i> e, 1935 C.D	. 11, 453 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 1-18 is/are pending in the application 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) 1-13 is/are allowed. 6) ☐ Claim(s) 14-18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-18 are subject to restriction and su	ithdrawn from consideration.					
Application Papers						
9) The specification is objected to by the Ex 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the second sheet of the second	☐ accepted or b)☐ objected to to the drawing(s) be held in abeyar correction is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for fo	oreign priority under 35 U.S.C. §	i 119(a)-(d) or (f).				
a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International E * See the attached detailed Office action for	uments have been received. uments have been received in A e priority documents have been Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage				
Attachment(s)	_					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-93) Information Disclosure Statement(s) (PTO-1449 or PTO/Paper No(s)/Mail Date 6/24/03. 	48) Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 				

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Restriction to one of the following inventions is required under 35 U.S.C. § 121:

- 1. Claims 1-13, drawn to processes, classified in Class 438, subclass 46.
- II. Claims 14-18, drawn to devices, classified in Class 257, subclass 85.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (M.P.E.P. § 806.05(f)). In the instant case the product as claimed can be produced by another materially different process such as that of the admitted prior art on instant pages 1 and 2.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the response to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 C.F.R. § 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a diligently-filed petition under 37 C.F.R. § 1.48(b) and by the fee required under 37 C.F.R. § 1.17(h).

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 14-18 are rejected under 35 U.S.C. 102(a) as being anticipated by applicant's admitted prior art on instant pages 1 and 2.

Although claims 14-18 are written in product-by-process format they are nonetheless drawn to the product itself which is indistinguishable from the product of the prior art process made using an AlAs release layer.

Claims 1-13 are allowed.

The following is an examiner's statement of reasons for allowance: Although Yablonovitch et al recognizes the etch rate to be proportional to the concentration of etchant (p.2222) and that onset of etching occurs at 40% Al in the GaAlAs layer, there is insufficient motivation to include irradiation with light of the sacrificial layer as recited. Also note that US 4846931 discloses use of dilute etchant to etch the release layer (col.2, lines 7-10) but fails to disclose an Al containing release layer or irradiation with light as recited.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Fourson whose telephone number is (571) 272-1860. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri, can be reached on (571) 272-1855. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

George Fourson Primary Examiner Art Unit 2823

GFourson December 12, 2004